

Notice of Allowability	Application No.	Applicant(s)	
	10/605,313	KUANG ET AL.	
	Examiner	Art Unit	
	Bryan Fischmann	3618	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>filing of 09-22-2003</u> .	•		
2. The allowed claim(s) is/are <u>1-12</u> .			
3. The drawings filed on 22 September 2003 are accepted by the Examiner.			
 4.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9-22-03 4. ☐ Examiner's Comment Regarding Requirement for Deposit	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☐ Examiner's Stateme	(PTO-413), e nent/Comment	
of Biological Material	9.	BRYAN FISCHI PRIMARY EXA	8-4-5 MANN MINER

Application/Control Number: 10/605,313 Page 2

Art Unit: 3618

Examiner's Amendment

1. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Don Harrington on 08-03-2005.

2. The application has been amended as follows:

A. IN THE CLAIMS

- 1) Claim 5 has been amended as follows:
- a) On line 3, the word [[the]] that appears before the word "maximum" has been deleted and replaced with the word –a--.
- b) On line 4, the word [[the]] that appears before the word "minimum" has been deleted and replaced with the word –a--.

Reasons for Allowance

3. The following is an Examiner's statement of reasons for allowance of independent claims 1 and 8:

Claim 1 recites the limitation of a method for controlling a hybrid electric vehicle powertrain having an internal combustion engine, a battery, an electric generator, an electric motor and a geared transmission, the method comprising the steps of; determining desired input torque, vehicle speed and the state-of-charge of the battery,

Application/Control Number: 10/605,313

Art Unit: 3618

determining whether the state-of-charge is less than a predetermined high value above which charging of the battery is not allowable, determining whether the state-of-charge is greater than a predetermined target value, operating the powertrain in a positive split mode when the state-of-charge is less than the high value and greater than the target value, and operating the powertrain in a generator drive mode with the engine off when the state-of-charge is greater than the high value. This limitation, in combination with the other limitations of claim 1, were not found in the prior art.

Page 3

Claim 8 recites the limitation of powertrain control system for a hybrid electric vehicle comprising an internal combustion engine, a battery, an electric generator, an electric motor and planetary gearing, a first brake for preventing rotation of the generator to condition the powertrain for a parallel operating mode, a second brake for preventing rotation of the planetary carrier to condition the powertrain for operation in a generator drive mode, and a vehicle powertrain controller for detecting the state-of-charge of the battery and the vehicle speed, the controller setting the operating mode when the state-of-charge is greater than a target value and the vehicle speed is less than a maximum value, the controller setting the powertrain for operation in generator drive mode when the state-of-charge is greater than a predetermined high value and the vehicle speed is less than the maximum value. This limitation, in combination with the other limitations of claim 8, were not found in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/605,313

Art Unit: 3618

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan Fischmann whose telephone number is (571) 272-6694.

BRYAN FISCHMANN PRIMARY EXAMINER

Page 4